SEEWORLD®

SEEWORLD S119/B GPS Tracker

USER MANUAL

S119B

S119

1. Product Features.....2

2. Product Specification.....2

3. Operation Guide.....3

3.1 Package.....3

3.2 Start to Use.....3

3.3 Installation Guide.....4

3.4 Status Indication.....4

3.5 Message Instruction.....5

3.6 Query Instruction.....7

4 Use the web service.....9

1. Product Features

S119 is a GPS+GSM data terminal, with easy installation and easy to use.

product main features :

No	Function Descriptions	S119B	S119
1	GSM Quad band supported	Yes	Yes
2	Newest generation u-blox GPS chipset u-blox 7	Yes	Yes
3	Wide range power input 8-45V DC	Yes	Yes
4	ACC(Ignition) detection	N/a	Yes
5	Fuel supply remote control	N/a	Yes
6	Internal battery for wire-cut alarm	N/a	Yes
7	Ultra-low power mode 1mA@12V	Yes	Yes
8	10000 points history trace can be saved without GSM coverage	Yes	Yes
9	Internal monitoring chip for automatic restore after system crash or error detected.	Yes	Yes
10	Quick GPS fixed with the u-blox Assist-GPS technology	Yes	Yes
11	3 LEDs for status indication	Yes	Yes
12	Hardware design with surge protection	Yes	Yes
13	Protection for wrong wire connection	Yes	Yes
14	Managing GPS devices on the web	Yes	Yes

15	Managing GPS devices using apps for android phone or iphone	Yes	Yes
16	Query device information using SMS	Yes	Yes
17	Real time tracking support	Yes	Yes
18	History trace playback	Yes	Yes
19	Self-define GEO fence	Yes	Yes
20	Voice monitoring	N/a	Yes

2. Product Specification

- GSM Band: Quad Band GSM/GPRS supported
- GPRS: Class12/TCP/IP
- Working Voltage: 8-45vDC
- Working Current: 20mA@12vDC (ACC ON)

  1mA @ 12vDC (ACC OFF)
- GPS Chipset: u-blox G7020
- GPS Channels: 56
- Tracking Sensitivity: -162dBm
- GPS Fixed Time Cold Start<29s(Open sky)

  Warm Start<29s

Hot Start<1s

Aided Start 10s

- Battery 1000mAh *(S119 only, S119B none)*
- Working Temperature: -20℃~+60℃
- Humility: 20%~60%RH
- Size: 72mm x 47mm x 22mm
- Weight: 60g
- LED Indicators RED-GSM, YELLOWGREEN-GPRS, BLUE-GPS

3. Operation Guide

3.1 Package

Packing List:

- S119 Device 1PCS
- Power supply cable 1PCS
- User manual 1PCS
- RELAY (Optional)

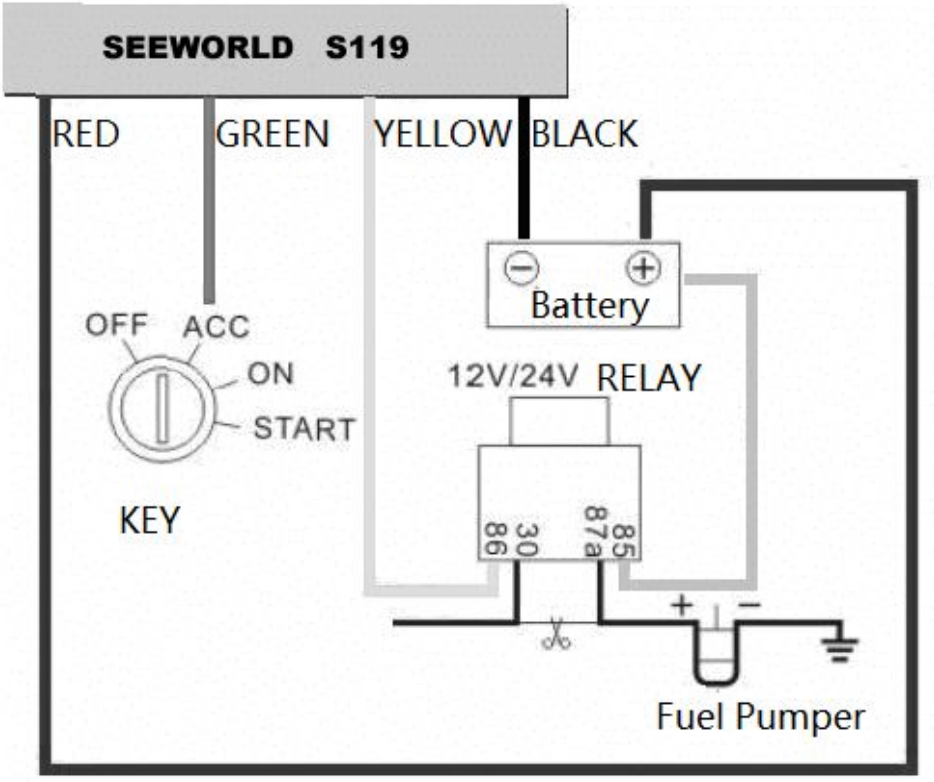
3.2 Start to Use

Important notice:

- Insert SIM card then connect the power to the device.
- SIM card must support GPRS service.

- SIM card must be in service.
- If SIM card require PIN code, please use other GSM mobile handset to remove the pin code.
- For oversea user, please check if the APN settings require or not.
- If you are an oversea user, please set the language(EN) by sending SMS to the device with: LANG,0#

3.3 Installation Guide



Connection Diagram

PIN No	Color	Description

1	RED	Power supply 8-45V DC
2	BLACK	Ground
3	GREEN	ACC detection, when key-in and turn to ACC position, ACC goes level high.
4	YELLOW	Relay control driving signal
	Please use 12V RELAY in 12V system, use 24V RELAY in 24V system like bus and truck.	

3.4 Status Indication

No	LED Color	Status	Descriptions
1	RED	Light	GSM work normal
		Blink	No GSM signal
2	BLUE	Light	GPRS connected to the server.
		Blink	GPRS connection failed.
3	YELLOW-GREEN	Light	GPS fixed.
		Blink	GPS searching.
Note	The LEDs will light up about 5 minutes, then turn off to save power, if you want to check the status, just call the phone number of the device.		

3.5 Message Instruction

1) APN Settings		
Instruction	Format	example
APN Setting 1	APN, APN-Name,user,psw#	APN,ac.vodafone.es,vodafone,vodaf one#
APN Setting 2	APN, APN-Name#	APN,cmnet#
Note:	APN settings are difference in difference country, if password require please follow setting 1, otherwise setting 2.	
Examples:	Send “APN,cmnet#” Return “Set APN OK! ” Notice: do not include the colon in the message.	

2) TIMER Settings		
Instruction	Format	example
TIMER Setting	TIMER,n#	TIMER,20#
Note:	When n=0, stop data upload, device working in ultra low power mode, only phone call or query SMS will active the GPS work for a moment. When 10≤n≤300, device upload data every n seconds. When n≥300, GPS work for a moment after n seconds, then	

	shut down GPS when finish the data upload.
Examples:	Send “TIMER,20#” Return “TIMER set ok. Now data upload period is 20 seconds. ”

3) CENTER Number Setting		
Instruction	Format	example
Add Center Number	CENTER,A,13811111111#	CENTER,A,13811111111#
Delete Center Number	CENTER,D #	CENTER,D#
Note:	1) Only center number can send RELAY control message. 2) Only one center number can be set. 3) Center number will receive the wire-cut alarm message.	
Examples:	Send “CENTER,A,13811111111” Return “SET CENTER TEL OK. TEL Number is 13811111111.”	

4) RELAY Control		
Instruction	Format	example
RELAY control enable	RELAY,1#	RELAY,1#
RELAY control disable	RELAY,0#	RELAY,0#
Note:	1) Send this message to make remote control like fuel	

	supplement. 2) Only work when the center number being set. 1) For safety reason, when device get this message, it will stop the fuel supplement when speed < 20Km.
Examples:	Send: "RELAY,1#" Return "RELAY ON!"

5) WL (User Define Fence) Setting		
Instruction	Format	example
User Define Fence	WLn	WL300
Note:	When fence being set, device out of the defined area, sender will get an alarm message.	
Examples:	Send "WL400" Return "..."	

6) Restore Factory Setting		
Instruction	Format	example
Restore Factory default	FACTORY #	FACTORY #
Note:	Restore factory setting, part of settings will restore factory default.	
Examples:	Send "FACTORY#"	

	Return“Factory Reset OK”

7) Device RESET		
Instruction	Format	example
RESET	RESET #	RESET #
Note:	Device will reboot.	
Example:	Send “RESET#” Return none, system reboot when receive this SMS.	

8) Language Setting		
Instruction	Format	example
Chinese	LANG,1#	LANG,1#
English	LANG,0#	LANG,0#
Note:	If Chinese selected, device will return landmark description in Chinese, if English set, it will return URL.	
Example:	Send “LANG,1#” Return “SET LANGUE OK, New LANGUAGE is CHINESE”	

9) GMT Time Zone		
Instruction	Format	example
Time Zone Setting	GMT,E/W,0~12,0/15/30/45	GMT,E,8,0#
Note:	Device use UTC+8 as default time zone. E: Ease； W: West 0~12, UTC difference. 0/15/30/45, Half time zone.	
Examples:	Send “GMT,E,8,0#” Return “Now Time Zone is UTC+8.”	

10) SOS Settings		
Instruction	Format	example
Set the SOS numbers	SOS,A,1=?,2=?,3=?# SOS,D,?,?,?#	SOS,A,1=13811111111,2=13811111111,3=13811111111#
Note:	You can set 3 SOS numbers, only the SOS number can make call connected, and then start the voice monitoring.	
Examples:	Sent “SOS,A,1=13811111111,2=13811111111,3=13811111111#” Return “Add SOS TEL	

	OK!1=13811111111,2=13811111111,3=13811111111” Sent “SOS,D,2,3#” Return “Delete SOS TEL2 And TEL3 OK!”

11) HB Call Back		
Instruction	Format	example
Voice monitoring	HB#	HB#
Note:	When SOS number being set, send “HB” will get a call back, you can answer to start voice monitoring.	
Examples:	n/a	

3.6 Query Instruction

1) Query Parameters		
Instruction	Format	example
Query Device Information	PARAM#	PARAM#
Note:	Use this instruction to query device main parameters.	
Examples:	Send “PRARM#”	

	Return: IMEI:68XXXXXXXXXXXX; APN:cmnet; IP:gm901.szdatasource.com:8841; TIMER:10S; CENTER TEL:0; LANGUAGE:CN; TIME ZONE:8.00; ATWL:300

2) Query Device Working Status		
Instruction	Format	example
STATUS	STATUS#	STATUS#
Note:	Use this message to check the device working status, like GSM, GPRS, GPS status.	
Examples:	Send “STATUS#” Return: BATTERY:100%, GPRS:NORMAL, (Connect to server successfully) GSM Signal:MIDDLE, (GSM signal level) GPS: FIXED, (GPS status)	

	GPS Signal:MIDDLE, (GPS signal level) ACC:OPEN, RELAY:DISABLED, CHARGER:NORMAL

3) URL		
Instruction	Format	example
URL	URL#	URL#
Note:	Use this SMS to query the position on Google map.	
Example:	<UTCTime:10-11-18 18:41:04>http://maps.google.com/maps?q=N22.540885,E113.951341	

4) 123		
Instruction	Format	example
Query address in Chinese	123	123
Note:	Use this SMS to query address in Chinese, if language is English, it will return URL, the same as URL message.	
Examples:	Send “URL” Return “...”	

4 Use the web service

Visit web with the account and password that the distributor provided.

www.justrack.com demo 123456

5 Trouble shooting

When finish installation, please check the device work normal or not? If work abnormal, please check with the following steps:

1) Call the phone number on the device, check if the SIM register to the GSM network?
2) Is the APN being set for oversea user? Set the correct APN according the manual.
3) Is the SIM with GPRS service? You can use a cell phone to browser a web site to check.
4) Please make sure you test the GPS in open sky.
5) Call for technical support, if the problem can not fix.

SEEWORLD Technology Corp. Ltd.

Contact:Helen Li

Mob:+86 13533117384

Skype:seeworldsales

Email: sales04@seeworld.hk